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4	BRS	28	(contrast near3 enhanc$5) with ((adjust$4 correct$3) near3 (function$1 curve$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 14:01			0
5	BRS	0	20030174886.URPN.	USPAT	2004/07/01 13:55			0
6	BRS	1624	S$1curve$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 14:02			0
7	BRS	21	S$1curve$1 and histogram$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 14:15			0
8	BRS	26	(S$1curve$1 same (contrast tone$1scale gray$1scale intensit$3 densit$3 dynamic$1range)) same (enhanc$5 stretch$3 adjust$4 correct$3 map$4 compress$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 14:24			0
9	BRS	45573	((curve$1 function$1) same (contrast tone$1scale gray$1scale intensit$3 densit$3 dynamic$1range)) same (enhanc$5 stretch$3 adjust$4 correct$3 map$4 compress$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 14:25			0
10	BRS	5562	((curve$1 function$1) with ((contrast tone$1scale gray$1scale intensit$3 densit$3 dynamic$1range) near3 (enhanc$5 stretch$3 adjust$4 correct$3 map$4 compress$3)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 14:29			0
11	BRS	174	(((curve$1 function$1) with ((contrast tone$1scale gray$1scale intensit$3 densit$3 dynamic$1range) near3 (enhanc$5 stretch$3 adjust$4 correct$3 map$4 compress$3)))) same histogram$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 14:30			0
12	BRS	121	(((curve$1 function$1) with ((contrast tone$1scale gray$1scale intensit$3 densit$3 dynamic$1range) near3 (enhanc$5 stretch$3 adjust$4 correct$3 map$4 compress$3)))) with histogram$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 14:30			0

Type	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
13	BRS	90	(((((curve$1 function$1) with (((contrast tone$1scale gray$1scale grey$1scale intensit$3 densit$3 dynamic$1range) near3 (enhanc$5 stretch$3 adjust$4 correct$3 map$4 compress$3)))) with histogram$4) and @ad<=20010201	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 15:25			0
14	IS&R	2	("4641267").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 15:26			0
15	IS&R	2	("5164993").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 15:27			0
16	IS&R	0	("JP2000354167A").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 15:29			0
17	IS&R	0	("JP3063884A").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 15:29			0
18	IS&R	0	("JP2000354167").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 15:29			0
19	IS&R	0	("JP3063884").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 15:32			0
20	IS&R	0	("JP30603884").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/01 15:32			0
21	BRS	94	S$1curve$1 same (contrast tone$1scale gray$1scale grey$1scale intensit$3 densit$3 dynamic$1range)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/02 09:04			0
22	BRS	2286	345/20,63,77,589,597,617,690.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/02 09:05			0
23	BRS	4401	348/251,254,603,358/1.9,2.1,3.27,447,461.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/02 09:05			0
24	IS&R	2	("5164993").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/02 09:51			0

Type	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
25 BRS	4110	382/162,165-169,172,254,274.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/02 11:33			0

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1 Special issue on SAC 2001 best papers: Evolutionary image enhancement with user behavior modeling
Cristian Munteanu, Agostinho Rosa
April 2001 **ACM SIGAPP Applied Computing Review**, Volume 9 Issue 1

Full text available: pdf(831.87 KB) Additional Information: full citation, abstract, references

In this paper we present a novel method for image enhancement of gray-scale images based on the simulation of evolution. Our method employs Genetic Algorithms to evolve the shape of the contrast curve in the image, while attempting to partially automate the subjective process of image evaluation (e.g. user behavior) by performing multiple regression on fitness values. Results obtained show the robustness and efficiency of the evolutive method for image enhancement. For several images in the test ...

Keywords: image enhancement, multiple regression, real-coded genetic algorithms, subjective fitness

2 Evolutionary image enhancement with user behaviour modeling
Cristian Munteanu, Agostinho Rosa
March 2001 **Proceedings of the 2001 ACM symposium on Applied computing**

Full text available: pdf(198.50 KB) Additional Information: full citation, references, index terms

Keywords: image enhancement, multiple regression, real-coded genetic algorithms, subjective fitness

3 Hardware: Hardware accelerated real time charcoal rendering
Aditi Majumder, M. Gopi
June 2002 **Proceedings of the 2nd international symposium on Non-photorealistic animation and rendering**

Full text available: 📄 pdf(15.59 MB)   Additional Information: full citation, abstract, references, index terms

In this paper, we present simple rendering techniques implemented using traditional graphics hardware to achieve the effects of charcoal drawing. The effects include characteristics of charcoal drawings like broad grainy strokes and smooth tonal variations that are achieved by smudging the charcoal by hand. Further, we also generate the *closure effect* that is used by artists at times to avoid hard silhouette edges. All these effects are achieved using *contrast enhancement operators* ...

Keywords: charcoal rendering, hardware accelerated rendering, non photorealistic rendering, real time rendering

4 A model of visual masking for computer graphics
James A. Ferwerda, Peter Shirley, Sumanta N. Pattanaik, Donald P. Greenberg
August 1997 **Proceedings of the 24th annual conference on Computer graphics and interactive techniques**

Full text available: 📄 pdf(1.25 MB)   Additional Information: full citation, references, citings, index terms

Keywords: error metrics, image quality, masking, visual perception

5 Computer simulation of irregular shaped lesions in radiographs
John M. DeGroot, Samuel J. Dwyer, Lewis J. Garrotto
August 1973 **Proceedings of the annual conference**

Full text available: 📄 pdf(323.35 KB)   Additional Information: full citation, abstract, references, index terms

Facing an ever-increasing demand for diagnostic radiological examinations, the radiologist has turned to other means for assistance. In some cases this has been the utilization of trained technical assistants. New methods and techniques have been tested. In this learning process, simulated lesions can be useful in training of assistants. It can also be an integral part of the evaluation of their abilities to perform the required functions. Second, the study of radiographic images may be qua ...

6 Digital halftoning with space filling curves
Luiz Velho, Jonas de Miranda Gomes

July 1991 **ACM SIGGRAPH Computer Graphics , Proceedings of the 18th annual conference on Computer graphics and interactive techniques,** Volume 25 Issue 4

Full text available: 📄 pdf(2.92 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper introduces a new digital halftoning technique that uses space filling curves to generate aperiodic patterns of clustered dots. This method allows the parameterization of the size of pixel clusters, which can vary in one pixel steps. The algorithm unifies, in this way, the dispersed and clustered-dot dithering techniques.

Keywords: bilevel display, digital halftoning, dithering, quantization, space filling curves

7 Human vision and computer graphics
Fanya S. Montalvo
August 1979 **ACM SIGGRAPH Computer Graphics , Proceedings of the 6th annual conference on Computer graphics and interactive techniques,** Volume 13 Issue 2

Full text available: 📄 pdf(402.59 KB)   Additional Information: full citation, abstract, references, index terms

Is one picture really worth a thousand words? Why do cleverly designed graphic displays make visual information stand out more clearly with strikingly greater impact than numbers buried in pages of computer printout? Graphic output devices shift the burden of integrating information generated by computers onto the human vision system: the sensory channel with the highest capacity for distributed parallel processing. The system consists of hundreds of successive two-dimensional ar ...

8 Image-based transfer function design for data exploration in volume visualization
Shiaofen Fang, Tom Biddlecome, Mihran Tuceryan
October 1998 **Proceedings of the conference on Visualization '98**

Full text available: 📄 pdf(1.78 MB) 📷 Publisher Site   Additional Information: full citation, references, citings, index terms

Keywords: 3D image processing, data exploration, transfer function, volume rendering, volume visualization

9 Painterly rendering: Abstracted painterly renderings using eye-tracking data
Anthony Santella, Doug DeCarlo
June 2002 **Proceedings of the 2nd international symposium on Non-photorealistic animation and rendering**

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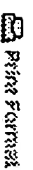
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1 **Scattering by S-shaped surfaces**
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2 **A bivariate autoregressive technique for analysis and classification of planar shapes**
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3 Characteristics of GaAs graded-period delta-doped superlattice

Wen-Chau Liu; Chung-Yih Sun; Wen-Shiung Lour;
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4 Precise geometry simulation of interferometric SAR signal for air and spaceborne sensors

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5 Syntactic pattern recognition for robot vision

Stenstrom, J.;
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6 A high fidelity contrast improving model based on human vision mechanisms

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12   **Hairy neuron convergence theorems without the precision of timing**

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14 **Optical distortion due to geomagnetism in quantitative angiography**
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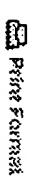
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5 **Small vessel enhancement in MRA images using local maximum mean processing**

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6 **B-spline snakes: a flexible tool for parametric contour detection**

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